

Sokoine Bell

by Arya Akhavan (July 2014)

Angles for R.I. = 1.650

32 + 6 girdles = 38 facets

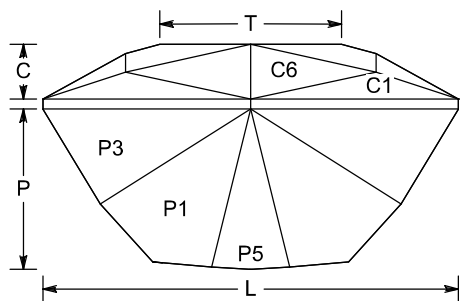
1-fold, mirror-image symmetry

96 index

$L/W = 1.231$ $T/W = 0.538$ $U/W = 0.406$

$P/W = 0.475$ $C/W = 0.162$

$Vol./W^3 = 0.277$



PAVILION

P1	43.79°	01-47-49-95	Cut to centerpoint.
P2	42.14°	46-50	Meet at culet.
G1	90.00°	06-42-54-90	Set stone width.
P3	65.60°	06-42-54-90	Level girdle.
P4	64.97°	30-66	Meet P1, P2, P3
G2	90.00°	30-66	Level girdle.
P5	43.29°	96	Meet P1, G1, P3

CROWN

C1	40.09°	06-42-54-90	Set girdle width.
C2	40.09°	30-66	Level girdle.
C3	34.82°	43-53	Meet G1, C1.
C4	24.49°	36-60	Meet G1, G2, C1, C2
C5	24.49°	12-84	Meet G1, G2, C1, C2
C6	32.81°	05-91	Meet G1, C1
C7	22.10°	38-58	Meet C1, C3, C4
C8	21.18°	09-87	Meet C1, C5, C6; C2, C4, C5
T	0.00°	Table	Meet C6, C8

This was also written for a friend, who had a uniquely shaped bicolor tanzanite. The weird keel is designed to help keep those two colors fully separate. To cut this design truly to meetpoint, when cutting G1 and P3, only cut 42-54. Then, after cutting G2, cut G1(90-06) to meet P4, P5, G2, then cut P3(90-06) to level girdle. Works in materials from peridot to CZ (RI = 1.65 - 2.16) with no changes.

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